

## All Nippon Airways Trading Co., Ltd. and Dawn Aerospace Signed MOU

### - Introducing a New Earth-to-Space Payload Flight by the Supersonic Spaceplane to Japan -

ALL NIPPON AIRWAYS TRADING CO., LTD. (Head Office: Minato-ku, Tokyo, CEO & President: Junichiro Miyagawa, [ANA Trading]) has signed a Memorandum of Understanding (MOU) with the New Zealand startup company Dawn Aerospace New Zealand Ltd. [Dawn Aerospace]. This agreement will facilitate the introduction of a Earth-to-Space Payload Flight service utilizing the supersonic spaceplane developed by Dawn Aerospace to the Japanese market.



#### 1. Enhancing Space Utilization Opportunities Through the Basic Agreement

ANA Group is advancing its business initiatives in the space industry under the slogan “Next Stop, Space”. Within its effort, ANA Trading is leveraging its wide range of expertise in the aviation industry, global network, and trading, finance, and investment capabilities as a trading company to develop services in the space industry.

In January this year, ANA Trading signed a MOU with the New Zealand startup Zenno Astronautics Ltd. to introduce its superconducting magnetic torquer for satellite attitude control into the Japanese market. In February, ANA Trading entered into a comprehensive business alliance agreement with I-NET Corp. to establish a supply chain for the space industry. Additionally, ANA Trading invested in and formed a capital and business alliance with Letara Co., Ltd. to support its overseas expansion and supply chain optimization.

Through this newly signed MOU, ANA Trading will accelerate the introduction of space demonstration services in the Japanese market using the “*Mk-II Aurora*,” The Spaceplane developed by Dawn Aerospace. “*Mk-II Aurora*” is a reusable suborbital vehicle capable of reaching space at supersonic speeds and returning to the Earth. By mounting demonstration equipment or observation instruments onboard, the vehicle enables technology testing, research and development under space-like conditions, including microgravity, as well as high-altitude atmospheric observation. Since the vehicle safely returns to the Earth, not only can data be collected in flight, but the payloads themselves can also be recovered.

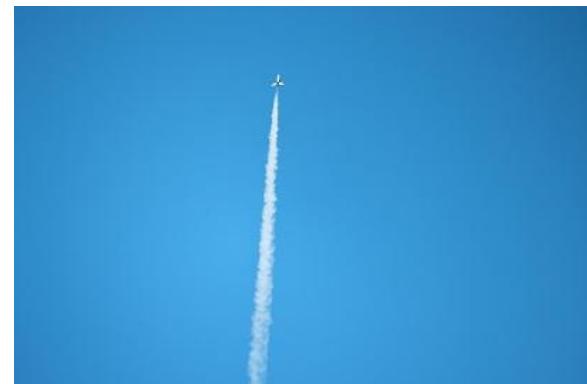
A key feature of this service is the ability to operate multiple flights per day, offering significantly lower costs and greater flexibility to accommodate a wide range of schedules and mission needs compared to

conventional space demonstration methods. This high-frequency and cost-efficient access to the suborbital space greatly expands the possibilities of space utilization, which has traditionally been limited by high costs and infrequent launch opportunities.

By providing this innovative space demonstration service in the Japanese market, ANA Trading aims to broaden the base for space utilization in Japan and contribute to the creation of a more vibrant space industry. While current operations are based in New Zealand, ANA Trading and Dawn Aerospace are also conducting feasibility studies toward future domestic operations, including the selection of potential sites in Japan and the examination of the regulatory environment.

## 2. Over View of *Mk-II Aurora*

The “*Mk-II Aurora*” is a spaceplane equipped with a rocket engine, measuring 4.8 meters in length. It is designed for suborbital flights, reaching an altitude of 100 km at Mach 3.5. The vehicle has successfully completed 58 test flights(as of April, 2025) to date, achieving a maximum speed of Mach 1.1 and an altitude of approximately 25 km (82,500 ft). It is one of the most accomplished spaceplanes currently under development worldwide.



(Over View of The Earth-to-High-Altitude Payload Flight by *Mk-II Aurora*)

Intended Applications	Technology demonstration under space conditions including vacuum, microgravity and radiation exposure / High-altitude atmospheric observations / Wind tunnel testing under supersonic flight conditions etc..
Maximum Altitude	100 km (target)
Maximum Speed	Mach 3+ (target)
Pricing	Pricing will be provided individually based on demonstration requirements. Please contact us for details.
Launch Site	New Zealand

<Overview of Dawn Aerospace>

Company name: Dawn Aerospace New Zealand Ltd.

Location: Christchurch, New Zealand

Business: Development of reusable spaceplanes and satellite propulsion systems

Official Website: <https://www.dawnaerospace.com/>

Social handle: @dawnaerospace

<Overview of ANA Trading>

Company name: ALL NIPPON AIRWAYS TRADING CO., LTD.

Location: Shiodome City Center, 1-5-2 Higashi-Shimbashi, Minato-ku, Tokyo

Business: For the procurement of aircraft parts, the export, import, lease and sale of aircraft, and the planning and procurement of in-flight service goods, import and export of semiconductors and electronic components, advertising agency business, and Internet shopping Site management, etc.

Official website: <https://www.anatc.com/en/>

Space Business: <https://www.anatc.com/en/business/space/>

For inquiries related to our business: [https://www.anatc.com/en/contact\\_form/](https://www.anatc.com/en/contact_form/)

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